

SUBJECT: Division Lever Return  
Mechanism. LA-5 and LA-6  
Models

DATE: March 7, 1934

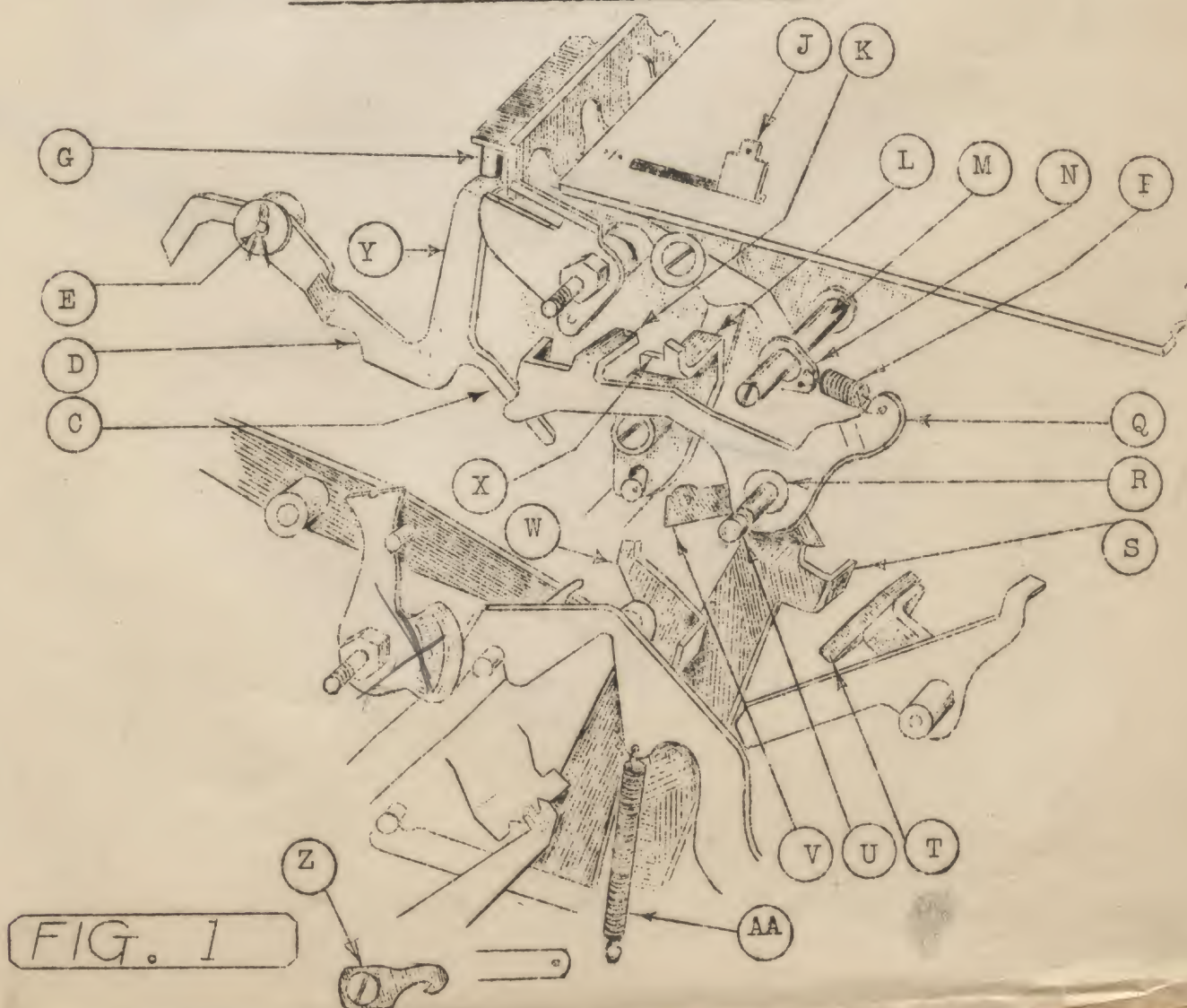
TO ALL OFFICES:

This Bulletin, Plates 1 to 4 inclusive, illustrates and describes recent improvements to the division lever return mechanism. It also explains its function and how the original mechanism may be converted.

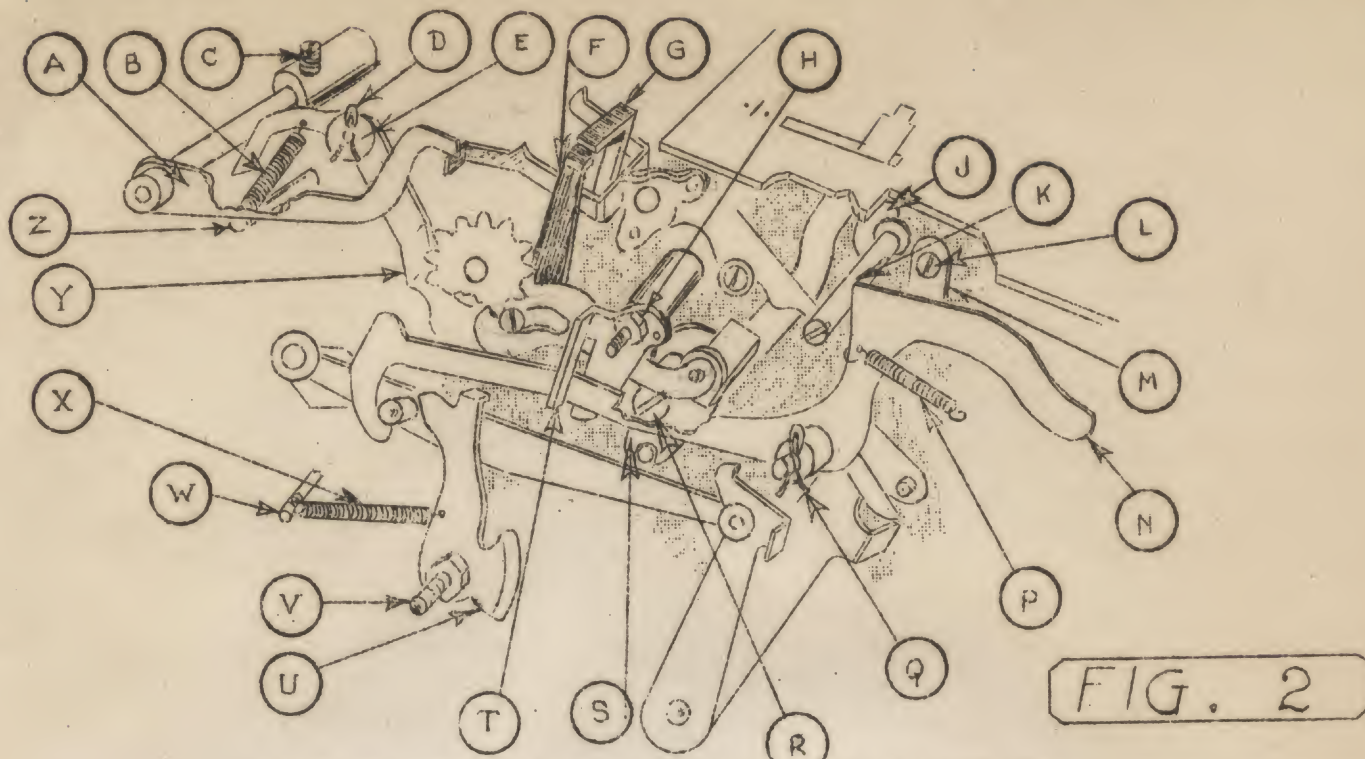
#### FUNCTIONING EXPLANATION

During automatic division, when the extreme left position is reached, stud (G) contacts (D) causing it to pivot at (E). As (D) pivots downward, blank (Q) which is supported by lug (C) pivots at (R) and positions downward. In doing so lug (K) positions at (X) and after the figures are registered in the lower dials and the trip lever is tripped, arm (V) drops downward where it is engaged by (W) which results in the positioning of lug (S) against the bumper pad (T). As lug (S) travels toward (T), lug (K) engages (L) and pulls the division lever (J) into neutral position.

#### VIEW SHOWING CONVERTED MECHANISM







VIEW OF ORIGINAL MECHANISM TO BE CONVERTED

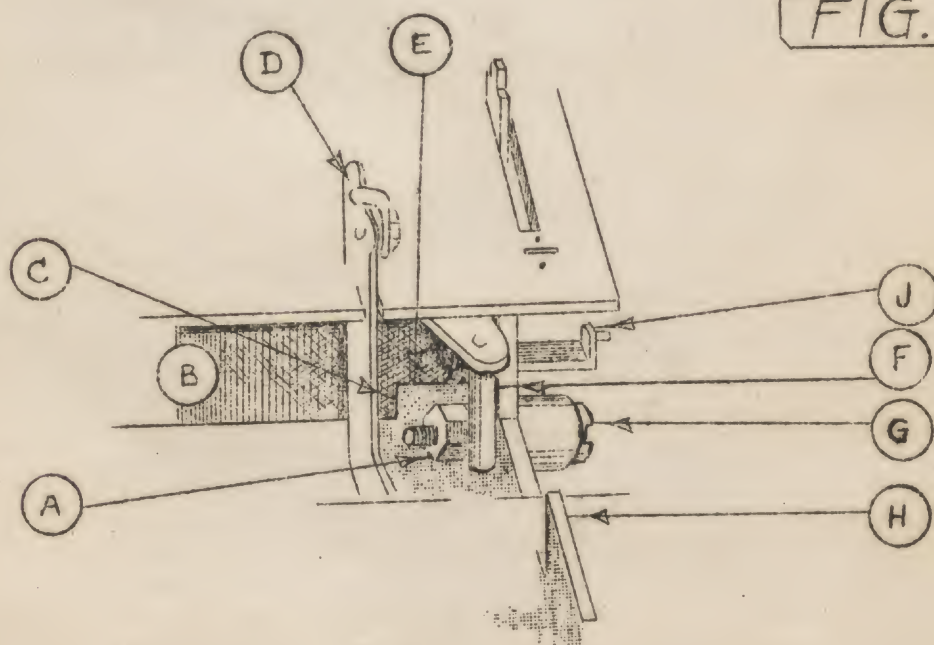
TO CONVERT THE MECHANISM OF LA-6 MODELS PROCEED AS FOLLOWS:

\* Omit these operations on LA-5 models.

- 1 - Remove carriage from machine.
- 2 - Remove retaining clip (Q).
- 3 - Unhook spring (P) from (T).
- 4 - Replace guide blank 40-7260, shown as (K), on Plate 28, Machine Service Bulletin 161-B, with 4726. Loosen screw (H). Position guide blank (T) upward. Tighten screw (H).
- 5 - Remove (N).
- \*6 - Loosen set screw (C) and withdraw trip arm assembly (A).
- 7 - Remove retaining clip (D) and washer (E). Unhook spring (B).
- 8 - See Figure 3, Plate 3.
- 9 - Remove screw (R).
- 10 - Remove the old style 40-719 assembly (Y) together with the old style 40-721 (S). Install the 40-721x2 and carefully insert screw (R).
- 11 - Remove screw (V) and blank (U). Grind (U) as shown on Plate 4. Place (U) on (V) and install (V) in the clutch yoke and side frame and tighten securely. NOTE:-On LA-5 machines, when removing (U), unhook spring (X) from stud (W). After converting (U), attach (X) to (W).
- 12 - Lower blank (T) leaving screw (H) loose.
- 13 - Remove screw stud (K).
- 14 - Remove screw (L) and arm (M).
- 15 - Remove the 40-776 (J) and grind as instructed on Plate 4. Apply grease to the ground surface and install (J) in its original position on side frame.
- 16 - Install the 27-778 (M) in its original position and insert screw (L).



- 17- Install the new style 4750 in place of (K).
- 18- Readjust (J) and (M) by following instructions on Plate 6 of Machine Service Bulletin 131.
- 19- Install the new style 40-719x1 in place of (Y) and secure with washer (E) and retaining clip (D).
- 20- Remove spring (B) from the 40-719 (Y) and install it on the 40-719x1. Attach (B) to stud (Z).
- 21- Install a #60 special washer on the shoulder of stud (U). See Figure 1.
- 22- Attach spring (P) to anchor (N) and blank (Q). See Figure 1.
- 23- Install (N) on the new style screw stud 4750 (M) while installing (Q) on stud (U). See Figure 1.
- 24- Adjust (Y) so that the lug which engages stud (G) is aligned with the surface of the carriage support arm. See Figure 1. Also see (F) and (G), Figure 2.
- 25- Adjust lug (C) upward or downward so that lug (K) clears the 40-721x2, shown as (L), by approximately  $1/32$ ". See Figure 1.
- \*26- Install trip arm assembly (A), shown in Figure 2, and adjust as explained on Plate 8, Machine Service Bulletin 161.
- 27- Attach (AA) to (Z). See Figure 1.
- 28- Install carriage on machine.



**Figure 3.**

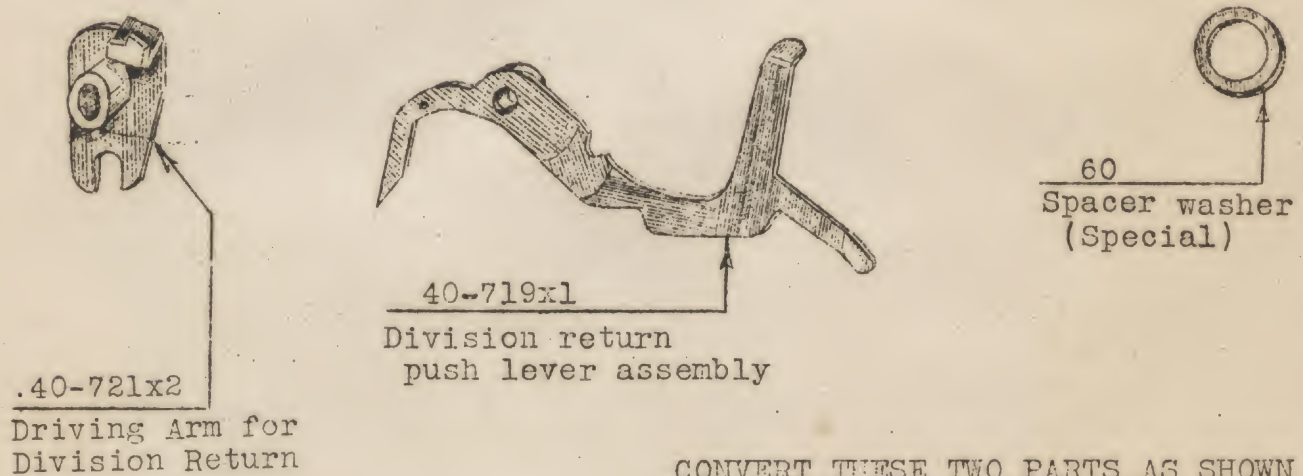
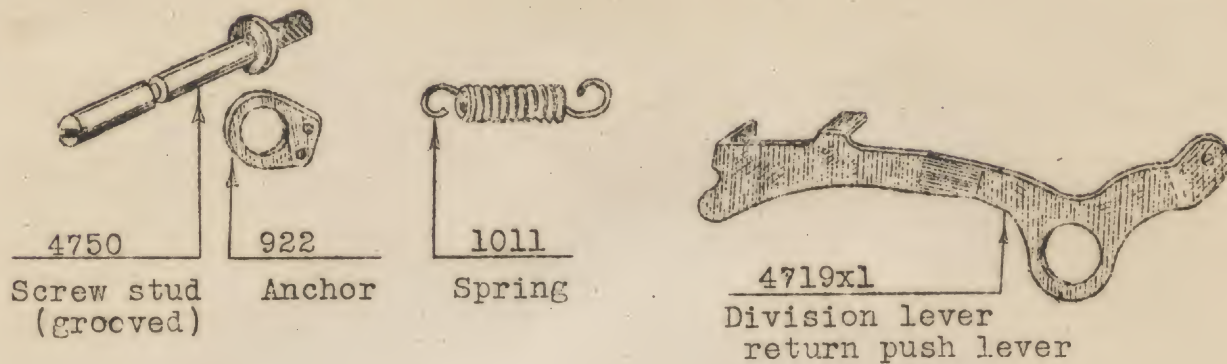
To loosen screw (G), insert the prongs of kit tool #25 between the top of nut (A) and the edge (E) of the rear keyboard cross frame (B). After screw (G) has been loosened remove the kit tool. Unhook (AA) from (Z). See Figure 1.

Before removing screw (G), insert kit tool #25 between the carriage lock (D) and stud (F) so that the prongs engage the face of nut (A) and the edge of (B) at (C). This will hold nut (A) in place against the side frame (H) while the 40-721 (J) is being replaced.



PARTS AND ASSEMBLIES

Material to requisition: 1 #60 Special 1 #4726  
 1 #922 1 #4750 (grooved)  
 1 #1011 1 40-719x1  
 1 #4719x1 1 40-721x2



CONVERT THESE TWO PARTS AS SHOWN

